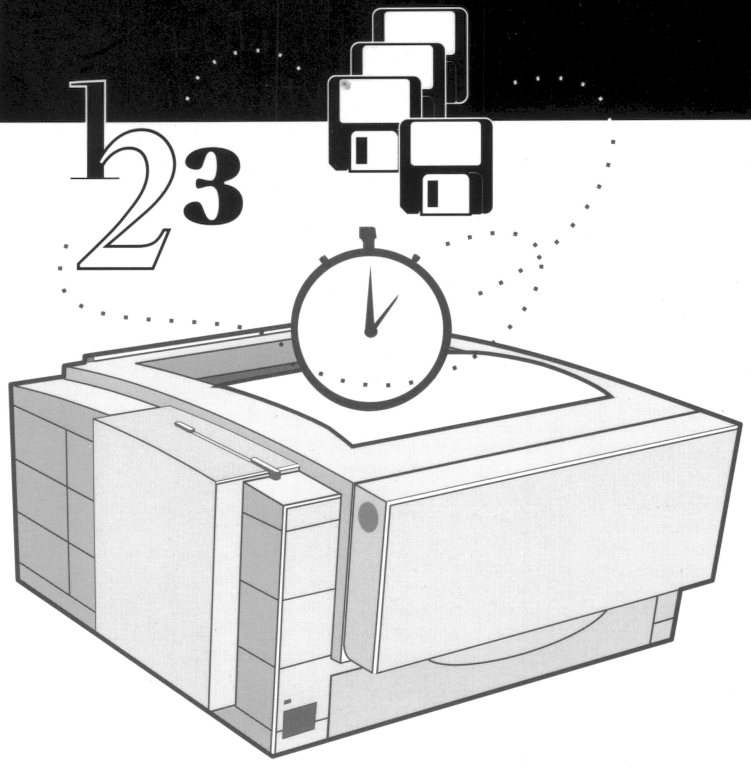
HEWLETT® PACKARD



LaserJet 5MP

Macintosh Notes

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HP LaserJet 5MP Printer

Macintosh Notes

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1

Completing Your Installation

Introduction

This manual is a continuation of the *HP LaserJet 5P/5MP Printer User's Manual*. It gives further instructions about choosing a printer and printing with your Macintosh. Before using this manual, make sure you have followed the instructions in section "Setting Up Your Printer" in Chapter 1, "Getting Started" of the *HP LaserJet 5P/5MP Printer User's Manual* to set up your printer and install your software. Then, use the information in this manual to complete your software setup and begin printing with your printer.

Understanding Your Printing Environment

This chapter includes two sets of instructions for completing your installation: one set for completing your installation in a non-GX environment and another set for completing your installation in a GX environment.

QuickDraw GX, an extension of the original QuickDraw imaging system, adds new features to your printing system. If QuickDraw GX is installed on your Macintosh, you'll see the GX icon on the screen when booting your Macintosh. In addition, the system requirements for the GX environment are different from those for a non-GX environment.

System requirements for a non-GX environment are as follows:

- 2 MBytes or more of memory
- System 6.0.7 or later

System requirements for a GX environment are as follows:

- 8 MBytes of memory
- System 7.5 and QuickDraw GX

Completing Your Installation for a Non-GX Environment

Follow these instructions for completing your installation if you do not have QuickDraw GX installed on your Macintosh.

Choosing Your Printer

You need to tell your Macintosh which printer to use by selecting the printer in the Chooser. You don't need to select a printer each time you print — only when:

- You're using a printer for the first time.
- You want to change printers.
- The selected printer is not available.

Note

If you are going to rename your printer, rename your printer *first* before selecting it in the Chooser. If you rename your printer *after* selecting it in the Chooser, you will have to go back into the Chooser and select the printer again.

Use the Set Printer Name feature in the HP LaserJet Utility to rename your printer. The utility is located in the "HP Utility" folder on your hard disk.

1 Make sure your printer is turned on and the printer is in Ready mode.

2 Open the **Chooser** from the Apple menu.

3 Click the **HP LaserJet** icon.

Printer names appear in the Select an **HP LaserJet Printer** box in the upper-right area of the Chooser.

4 ***If you are on a network with multiple zones***, select the zone in the **AppleTalk Zones** box where your printer is located. Find out from your network administrator which zone your printer is in and what your printer's name is. Next, select the zone in the box where your printer is located. (You may need to scroll through the zones to locate the one you want.)

Selecting an Alternate PPD

A PostScript Printer Description file (PPD) contains a description of your printer's features. The printer driver uses the information in the PPD to give you control over these features.

Typically, you do not have to select an alternate PPD. However, some reasons you might want to choose a PPD manually are the following:

- The printer driver may not be able to query the printer to determine the appropriate PPD — for example, some print spoolers may not respond to driver queries.
- The printer driver cannot find the PPD for your printer.

1 Open the **Chooser** from the Apple menu.

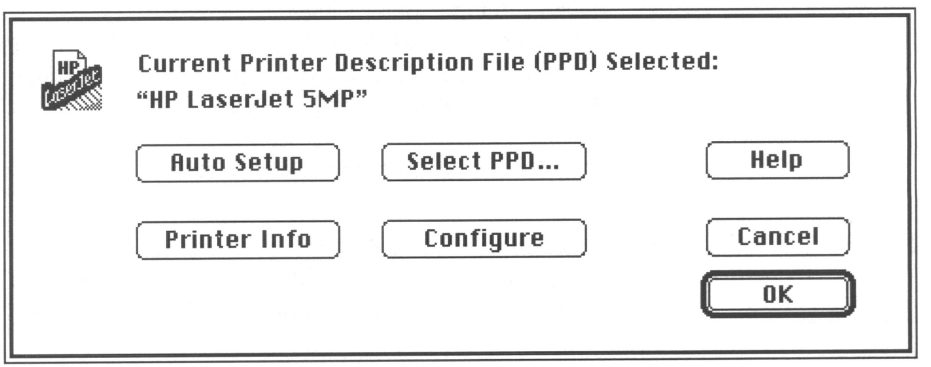
2 Click the **HP LaserJet** icon.

3 If you are on a network with multiple zones, select the zone in the **AppleTalk Zones** box where your printer is located.

4 Click the printer name you want to use in the **Select an HP LaserJet Printer** box.

5 Click **Setup....**

6 Click Select **PPD....**



Completing Your Installation for QuickDraw GX

Follow these instructions only if you have QuickDraw GX installed on your Macintosh.

You need to tell your Macintosh which printer to use by creating a desktop printer icon for your printer using the Chooser, and then selecting the printer in the Print dialog box.

Note

If you are going to rename your printer, rename your printer *first* before selecting it in the Chooser. If you rename your printer *after* selecting it in the Chooser, you will have to go back into the Chooser and create a new desktop printer icon.

Use the Set Printer Name feature in the HP LaserJet Utility to rename your printer. The utility is located in the "HP Utility" folder on your hard disk.

1 Make sure your printer is turned on and the printer is in Ready mode.

2 Open the **Chooser** from the Apple menu.

3 Click the **LaserJet 5MP GX** icon.

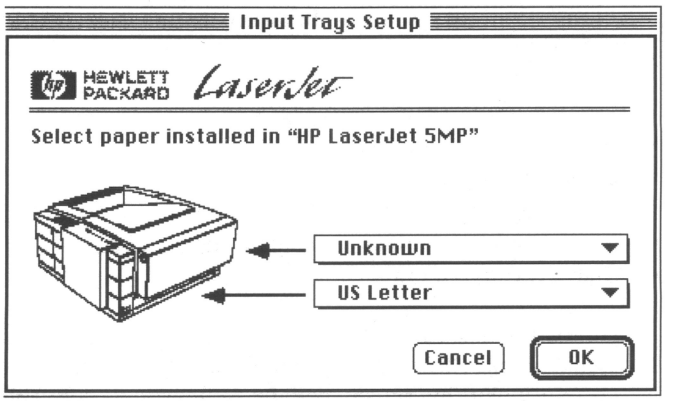
4 ***If you are on a network with multiple zones***, select the zone in the **AppleTalk Zones** box where your printer is located. Find out from your network administrator which zone your printer is in and what your printer's name is. Next, select the zone in the box where your printer is located. (You may need to scroll through the zones to locate the one you want.)

Note

For more information about QuickDraw GX, see your System software manual.

9 Choose **Input Trays** from the Printing menu.

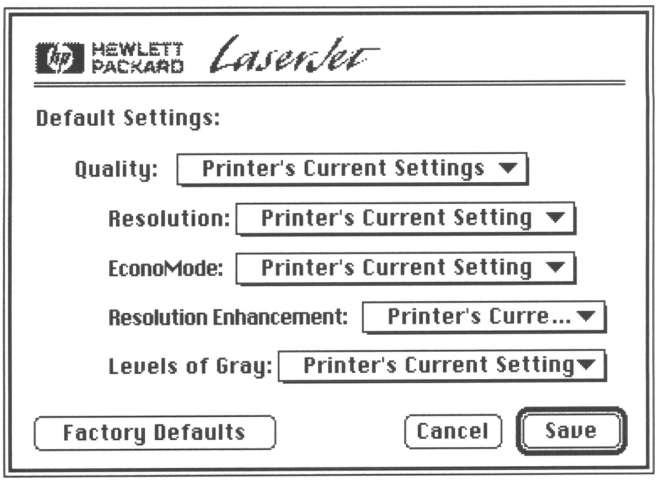
10 Select the paper type currently loaded in each tray of your HP LaserJet 5MP printer, and click **OK** to return to the Finder.



11 If paper is not loaded in the tray, select Unknown.

12 Your software setup is now complete! Continue with the following steps to print a test document so you can make sure your printer is set up correctly.

13 Choose **Printing Options** from the Printing menu.



14 Select the printing options you want, and click **OK** to save your selections.

15 Choose **Print Window** or **Print Desktop** from the File menu, and click **Print**.

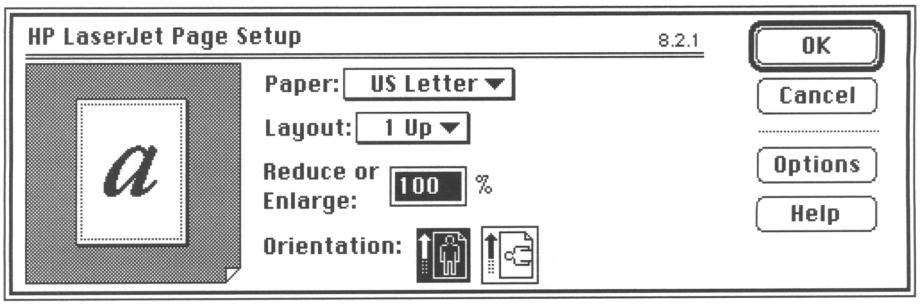
Note For more information about QuickDraw GX, see your System software manual.

Printing in a Non-GX Environment

Selecting Page Setup Features

The Page Setup dialog box allows you to specify certain aspects of your document, such as page orientation and page layout. The features you select in this dialog box apply to the current job you are working on within your software application.

Choose **Page Setup** from the File menu.



What you can do:	How you do it:
Receive information about the features in the Page Setup dialog box.	Click **Help**.
Choose an option.	Click the desired button, icon, or box.
See more choices.	Click **Options**.
Save your selections and exit the Page Setup dialog box at any time.	Click **OK**.
Cancel your selections and exit the Page Setup dialog box at any time.	Click **Cancel**. (When you choose **Cancel**, any options you may have changed are not saved.)

When you choose an item in the Page Setup dialog box, the page image on the left-hand side changes to reflect the option you selected.

Reduce or Enlarge

If you want your document image to print smaller or larger on the page, enter a reduction or enlargement percentage. The default setting is for the normal size, 100%.

Click the **Reduce or Enlarge** box, and type in the desired percentage. The range is 25% for reduction to 400% for enlargement. If you choose a percentage below or above this range, a caution box appears telling you that your selected value is out of range and that it will be replaced with the closest allowable size.

Orientation

You can control the direction of print on your page by clicking the desired icon next to Orientation. You have two choices:

1 If you select the first icon, your printer prints your document in a tall or vertical format (portrait).

2 If you select the second icon, your printer prints your document in a wide or horizontal format (landscape).

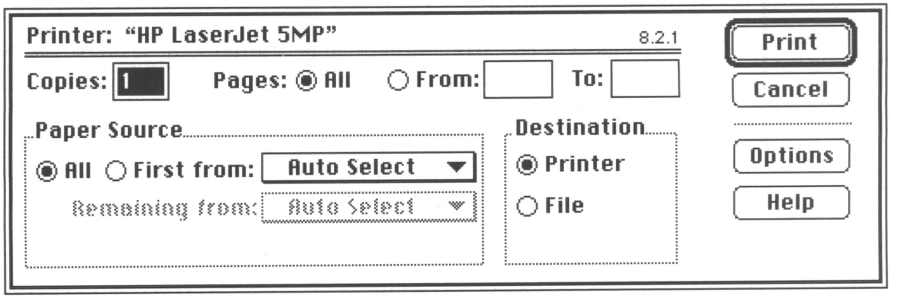
Printing Your Work

The Print dialog box is the dialog box you will use most frequently when you print a document. The print selections determine how your document will print.

NOTE The print features in the Print dialog box may change, depending on the application you are using.

1 Make sure the document you want to print is in the active window.

2 Choose **Print** from the File menu.



What you can do:	How you do it:
Receive information about the features in the Print dialog box.	Click **Help**.
Choose an option.	Click the desired button, icon, or box.
See more choices.	Click **Options**.
Save your selections and print your document.	Click **Print**.
Cancel your selections and exit the Print dialog box at any time.	Click **Cancel**. (When you choose **Cancel**, any options you may have changed are not saved and your document is not printed.)

Print Options

1 Click **Options** to open the Print Options dialog box.

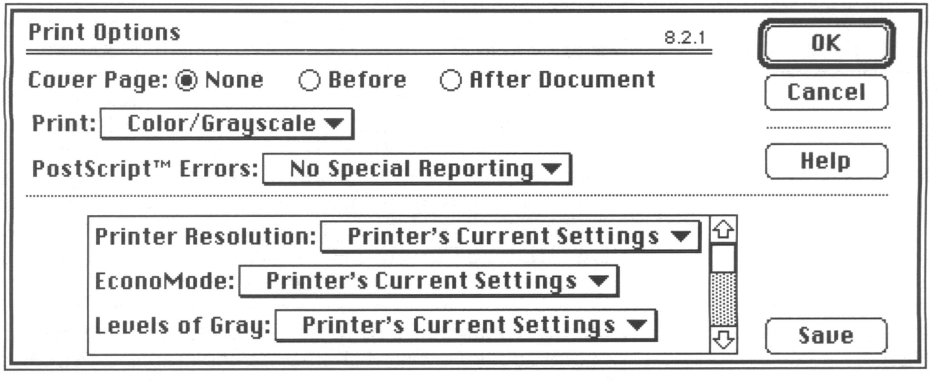
2 To select an option, click the appropriate radio button or pop-up menu.

If you click **Save**, the options you select apply to all documents until you change the options again.

Options that appear below the dotted line are printer-specific features.

Note

The options you select in the Print Options dialog box apply only to the job you are currently printing. To set printer default settings, which apply to all print jobs, use the HP LaserJet Utility. See "Using the HP LaserJet Utility," later in this chapter.



Stopping a Print Job

You can stop a print job by canceling it through a software application or from the PrintMonitor. You can also stop a print job by pressing the RESET button on the printer (see "To Stop a Print Job," in Chapter 2 of the *HP LaserJet 5P/5MP Printer User's Manual*).

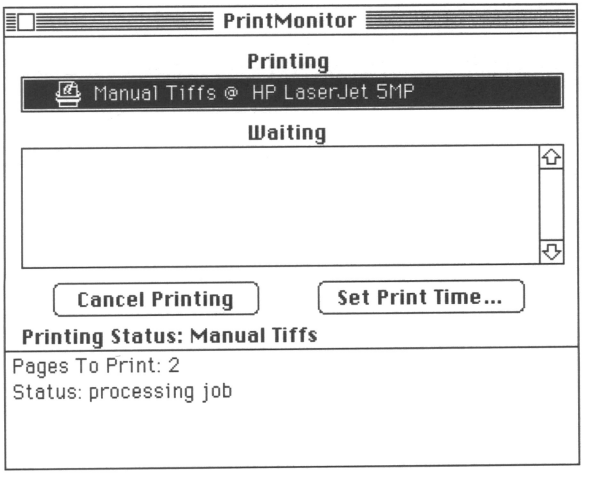
To cancel a print job through the software application, hold down the command key and press the period (.) key on your keyboard. A few additional pages may continue to print until the printer's memory clears.

To cancel a print job from the PrintMonitor:

1 Choose **PrintMonitor** from the Application menu.

2 Click **Cancel Printing**.

3 Press the RESET button on the printer.



Printing with QuickDraw GX

Introduction

QuickDraw GX adds new features to your printing system while remaining compatible with non-GX-aware applications. QuickDraw GX provides new printer dialog boxes as described in this chapter. If your application is not QuickDraw GX-aware *and* you have QuickDraw GX installed on your Macintosh, the printer dialog boxes you will see differ from those that are designed for QuickDraw GX applications—skip to section "Printing with Non-GX-Aware Applications With QuickDraw GX," later in this chapter.

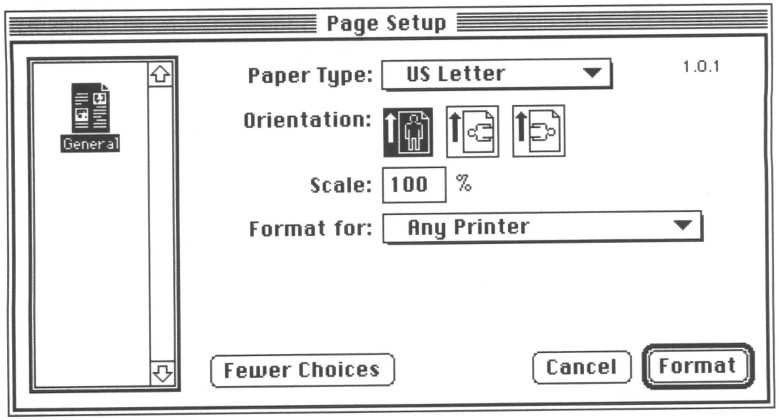
Printing with QuickDraw GX Applications

Follow the instructions in this section if you are printing with applications that are QuickDraw GX aware.

Selecting Page Setup Features

The Page Setup dialog box allows you to specify certain aspects of your document, such as page orientation and page layout. The features you select in this dialog box apply to the current job you are working on within your software application.

Choose Page Setup from the File menu.



Selecting Print Features

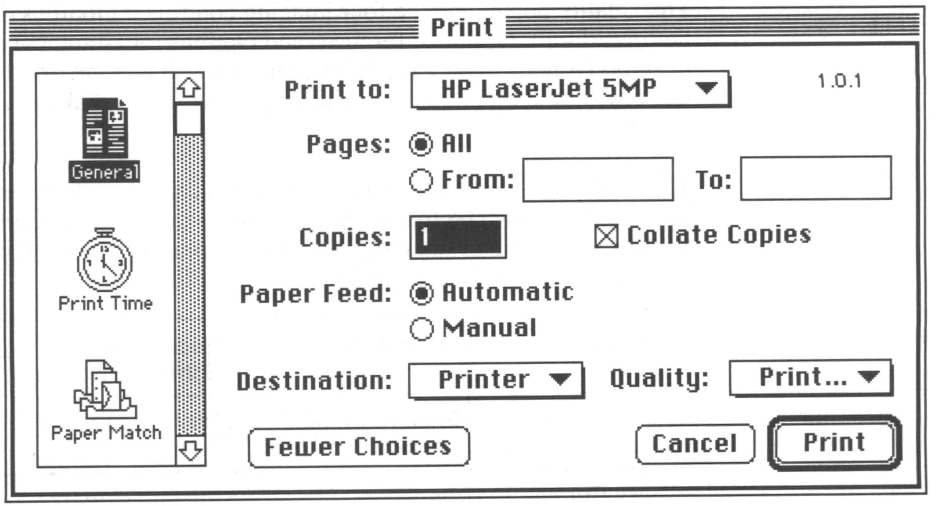
The Print dialog box is the dialog box you will use most frequently when you print a document. The print selections determine how your document will print.

NOTE

The print features in the Print dialog box may change, depending on the application you are using.

1 Make sure the document you want to print is in the active window.

2 Choose **Print** from the File menu.



Print To

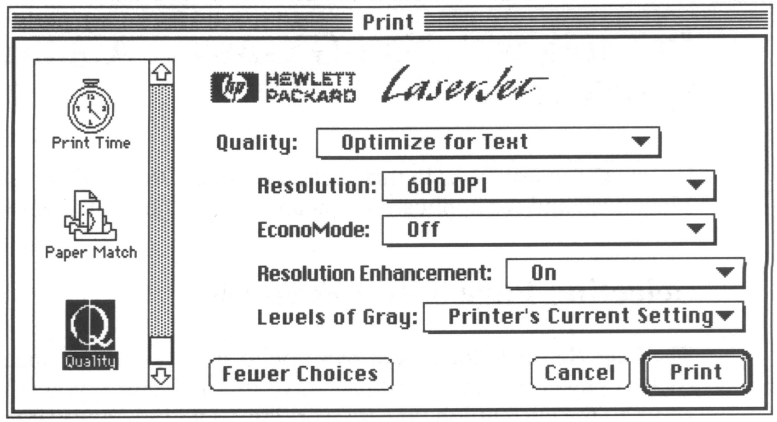
Select the printer you will use to print this print job.

Pages

If **All** is selected, your printer prints t'he entire document. If you want to select a range of pages to print, click once in the **From** box and enter your starting page number. Use the `[Tab]` key on your keyboard or click in the **To** box and enter your ending page number. To print only one page, type the same page number in both boxes.

Copies

Type the desired number of copies in the **Copies** box. To collate the copies, select the **Collate Copies** box.



Option:	What it does:
Quality	Automatically adjust the settings of the printer imaging controls (Resolution, EconoMode, Resolution Enhancement, and Levels of Gray). See Quality in "Selecting Print Features" in this chapter.
Resolution*	Allows you to print at 600 dpi (dots per inch) or 300 dpi.
EconoMode*	Reduces the amount of toner on the printed page so the toner cartridge lasts longer. The printed result is similar to printing a document in a draft mode.
Resolution Enhancement (REt)*	Improves print quality by resizing and repositioning print dots to smooth the jagged edges of printed characters and graphics. The printer's default is the setting to which the printer is currently set.
Levels of Gray*	Improves print quality of grayscale graphics images. **Enhanced** eliminates visible "banding" by providing many more levels of gray. **Standard** provides backward compatibility with older printers by using the Adobe PostScript standard levels of gray.
	*These controls have a Printer's Current Setting selection which causes the value for the variable in the printer to be used.

Orientation

You can control the direction of print on your page by clicking the desired icon next to **Orientation**. You have two choices:

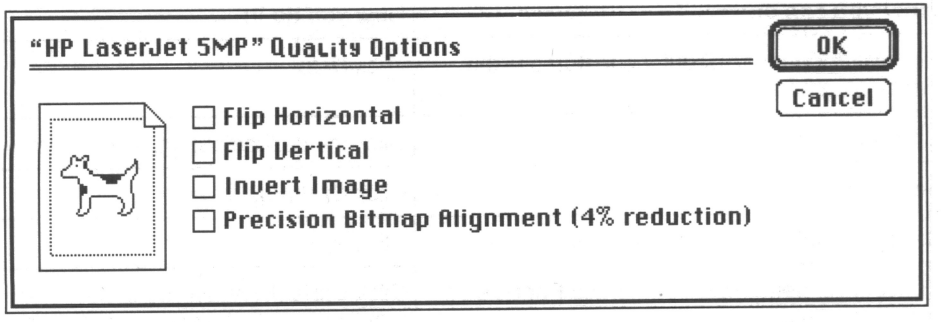
1 If you select the first icon, your printer prints your document in a tall or vertical format (portrait).

2 If you select the second icon, your printer prints your document in a wide or horizontal format (landscape).

Options

1 Click **Options** to open the Options dialog box.

2 To select an option, click on the desired check box.



Option:	What it does:
Flip Horizontal	Reverses the page image from left to right.
Flip Vertical	Reverses the page image from top to bottom.
Invert Image	Prints white on black.
Precision Bitmap Alignment	Reduces the size of your page by a small amount to give your graphics better accuracy and to hide small imperfections in bitmapped images.

Selecting Print Features

The Print dialog box is the dialog box you will use most frequently when you print a document. The print selections determine how your document will print.

NOTE The print features in the Print dialog box may change, depending on the application you are using.

Copies

You may select from 1 to 999 copies. Type the desired number of copies in the Copies box.

Pages

If **All** is selected, your printer prints the entire document. If you want to select a range of pages to print, click once in the **From** box and enter your starting page number. Use the [Tab] key on your keyboard or click once in the **To** box and enter your ending page number. To print only one page, type the same page number in both boxes.

Media

AutoSelect causes the paper to be pulled from the tray you selected using the Input Trays command from the Printing menu (see "Completing Your Installation for QuickDraw GX" in Chapter 1, "Completing Your Installation"). Manual Feed causes the paper to be pulled from Tray 1.

Quality

Automatically adjust the settings of the printer imaging controls (Resolution, EconoMode, Resolution Enhancement, and Levels of Gray). See "Quality" in "Selecting Print Features" in this chapter.

Save as PostScript File

You can either send your document to the printer or save it to a disk file in a PostScript format. See "Saving Your Document to a File" in Appendix A, "Reference Information," for more information.

Managing a Print Job

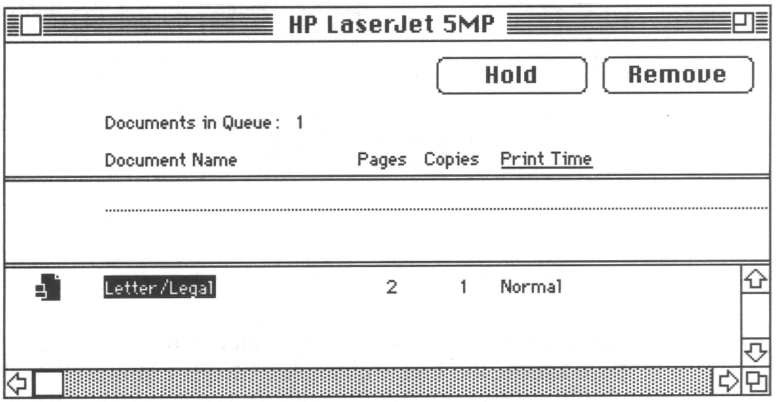
You can stop a print job by canceling it through a software application. You can also manage a print job from the Desktop Printer icon by canceling a job, pausing and resuming a job, stopping and starting printing to the printer, and setting the print time for individual jobs.

To cancel a print job through the software application, hold down the command key and press the period (.) key on your keyboard. A few additional pages may continue to print until the printer's memory clears.

To manage print jobs from the Desktop Printer icon:

1 Double-click the Desktop Printer icon for your HP LaserJet 5MP printer.

The Printing menu is added to the Finder, and the Status Window appears. The Status Window tells you how many print jobs are currently queued to print, which job is currently printing, the number of pages and copies per job, and an estimate of the print time (normal or longer).



2 Select the print job you want to pause or cancel.
3 Click **Hold** to stop printing the PostScript job you selected.
4 Click **Remove** to cancel the print job, or choose **Resume on Page One** or **Resume on Page** from the Printing menu to resume the job.

If you choose **Remove**, the print job is removed from the Status Window. If you choose **Resume on Page One** or **Resume on Page**, the print job is resumed.

5 Choose **Stop Print Queue** from the Print menu to stop new jobs from spooling to the printer.
6 Choose **Start Print Queue** from the Print menu to restart sending print jobs to the printer.
7 Choose Set Print Time from the Print menu to change the length of time the job takes to print.

Troubleshooting

Introduction

If you have problems while you print, use the checklists and procedures in this chapter to identify and solve the problem. This chapter includes information on:

- Printing Self Test Pages
- Getting information about PostScript errors
- Calling for help
- Solving problems when selecting your printer in the chooser
- Correcting printing errors
- PostScript troubleshooting

For more help, see Chapter 4, "Troubleshooting," in the *HP LaserJet 5P/5MP Printer User's Manual.*

Printing Self Test Pages

Printing a printer self test/configuration page, a PostScript configuration page, or both is the best first step when troubleshooting printer problems. To print these pages, simultaneously press the GO and RESET buttons on the printer. First the self text page prints, and then the PostScript configuration page will print. For more information about these pages, see Chapter 3, "Understanding Printer Software" in the *HP LaserJet 5P/5MP Printer User's Manual.*

Solving Problems When Selecting Your Printer in the Chooser

Situation:	Solution:
Printer driver icon does not appear in the Chooser.	Reinstall the printer software. For instructions, see either "Completing Your Installation for a Non-GX Environment" or "Completing Your Installation for QuickDraw GX," both in Chapter 1, "Completing Your Installation."
Printer name does not appear in the "Select an HP LaserJet Printer" box in the Chooser.	Make sure: • Your printer is turned on (only after the cables are connected). • Your printer is in Ready Mode (only the Ready light is on). • Your cable is connected to the printer port of your Macintosh (LocalTalk only). • The correct printer driver has been selected in the Chooser. • If the printer resides on a network with multiple zones, the correct zone is selected in the "AppleTalk Zones" box in the Chooser. • Your printer has not been chosen in the Chooser. Simultaneously press the GO and RESET buttons on the printer to print a self test page, and check the name of the printer displayed on the self test page. • AppleTalk is on (the button next to **Active** is selected in the Chooser). If AppleTalk is not active, you will be prompted to restart. • The printer is connected properly to your Macintosh. If you are using a LocalTalk cable, temporarily replace the cable with another to verify that you have a good cable. • Your printer is on the correct network. Select the **Network** control panel from **Control Panels** in the Apple menu, and then choose the correct network or contact your network administrator for assistance.
Printer driver does not automatically set up your selected printer even though you clicked **Auto Setup** in the Chooser. (this is a non-GX-environment)	1 Reinstall the printer software. For instructions, see either "Completing Your Installation for a Non-GX Environment" or "Completing Your Installation for QuickDraw GX," both in Chapter 1, "Completing Your Installation." 2 Select an alternate PPD. See "Selecting an Alternate PPD," in Chapter 1. 3 Your PPD may have been renamed. If so, select the renamed PPD. See "Selecting an Alternate PPD," in Chapter 1.

PostScript Troubleshooting

The following situations are PostScript language–specific and may occur when several printer languages are used.

Situation:	Solution:
The job prints in Courier (the printer's default typeface) instead of the typeface you requested.	The requested typeface is not downloaded. A personality switch may have been performed to print a PCL job just before the PostScript printing job was received. Download the desired font.
A legal page prints with clipped margins.	You may need to print your job at 300 dots per inch or install more memory. See Chapter 3, "Understanding Printer Software and Typefaces," in the *HP LaserJet 5P/5MP Printer User's Manual*.
A PostScript error page prints.	Make sure the print job is a PostScript job. Check to see whether your software expected you to send a setup or PostScript header file to the printer.

Reference Information

Introduction

This appendix contains reference information to assist you in working with your printer and your Macintosh. It includes information about the following:

- Working with fonts
- Working with graphics
- Saving your document to a file

Printer Fonts and Screen Fonts

Your printer contains 35 Type 1 PostScript fonts. If you wish to download additional TrueType or Type 1 fonts to your printer, you can use the Download Fonts feature in the HP LaserJet Utility. The downloaded fonts will stay in your printer until you perform a function that erases them, such as turning off your printer or switching between languages (for example, PCL and PostScript).

When you create a document, the text characters you see on your screen are screen fonts. They allow you to see what your document will look like when it is printed (what you see is what you get, or WYSIWYG).

Screen fonts to match the 35 PostScript printer fonts were automatically added to your system when you installed the Printer Software for Macintosh.

Defining Terms

Resolution. The number of dots per inch (dpi) printed on the page. It also refers to the dots per inch saved in a bitmap file.

Scaling. The resizing of an image: smaller or larger. Many software applications allow you to scale a graphic to fit a frame or space in a document. You can scale vector graphics easily, without worrying about affecting the image quality. If you scale bitmaps, though, you may affect the quality of the printed graphic.

Scanning Graphics

The first rule in scanning images is to consider the printer resolution before setting the scanning resolution. Remember that the printer resolution may affect how the image is processed. Remember also that scanned images are bitmaps that can contain at least 1-bit or 8-bit grayscale information.

Depending on the image content, you can select either 1-bit or 8-bit depth. For images that do not have many shades of gray, such as line art drawings, you can scan at 1-bit depth. For images containing many shades of gray, such as photographs, you can scan at 8-bit depth to capture up to 256 levels of gray.

You can scan an image at a lower resolution than the printer resolution with excellent results if you are capturing 8-bit grayscale information with the scanner. To print an image at 600 dpi, scan an 8-bit file at 150 to 200 dpi. If you use a higher scanning resolution, you may not notice any improvement in the image quality. The reason for using a lower scanning resolution is because the printer can place only black toner on the paper—not gray. To create a gray dot in the image, the printer must use several dots, some black (toner) and some white (paper). Scanning at resolutions higher than 200 dpi may create larger files without noticeable improvement.

When scanning at 1-bit depth, scan at the same resolution as your printer or higher. For example, to print a graphic at 600 dpi, scan it at 600 dpi.

If you are printing only drawings and text, you may want to increase the Resolution Enhancement technology (REt) setting on the printer's control panel to Dark. However, if you are printing scanned photographs, set the REt setting to Light or Off. If the REt setting is On, grayscale images may print too dark and show insufficient contrast.

Some scanners allow you to calibrate the path a graphic travels on its way to the printer. Each step in the scanner-to-printer process can degrade the image quality. Calibration ensures that any variation in the scanner, application software, screen display, paper, or printer is accounted for when the image is scanned using the specified print path. Refer to your scanner documentation for calibration procedures.

Note For information about how to scan images, see your scanner documentation.

7 Specify the encoding of your file by clicking one of the two choices:

ASCII. PostScript files are ASCII text files that can be opened with any word-processing application.

Binary. Binary encoding speeds printing; however, the printer to which you will send the file must be set to receive binary data, or selecting this option may cause printing problems.

8 Specify the printer compatibility by clicking on one of the two choices:

Level 1 Compatible. Specifies compatibility with all PostScript printers.

Level 2 Only. Specifies compatibility with Level 2 printers only. Level 2 features speed printing; however, PostScript files created with this option may not print correctly on a PostScript Level 1 printer.

9 Specify the details on how to save the file under Font Inclusion by selecting one of the following options:

Option:	What it does:
None	Uses the printer fonts (assumes that all fonts used in the document are available in the printer).
All	Includes all fonts used in the document that are available on your Macintosh.
All But Standard 13	Includes all fonts used in the document that are available on your Macintosh except the core set of 13 standard typefaces that virtually all PostScript printers support.

10 Click **Save**. The file is created in the specified folder and you will be returned to your application.

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